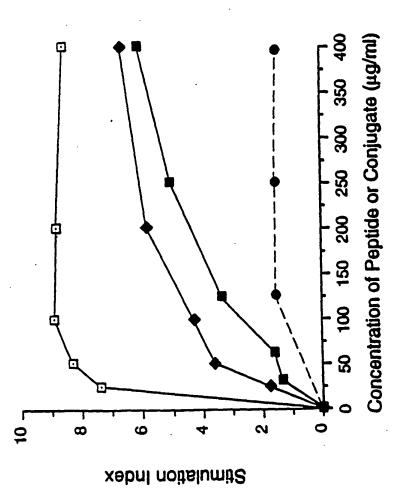


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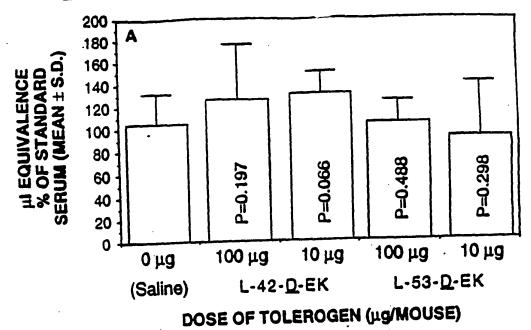


FIG. 3A

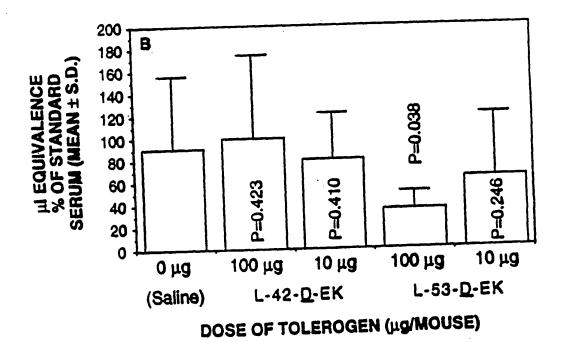


FIG. 3B

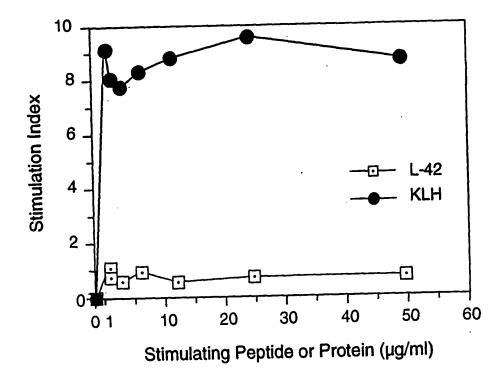
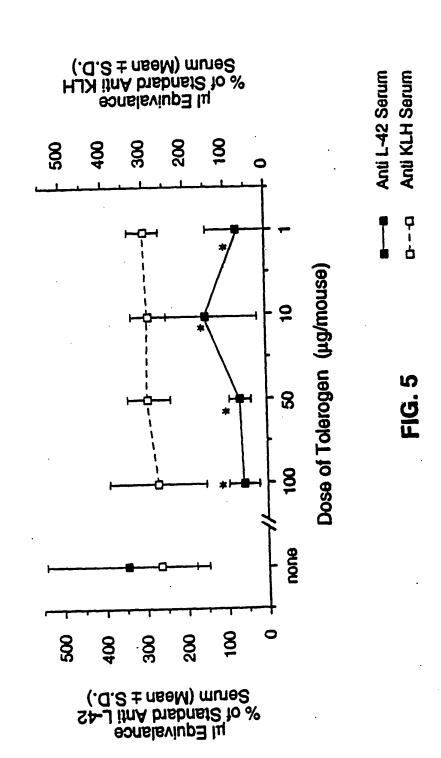


FIG. 4

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## T Cell Proliferation Induced by Mellitin Peptides

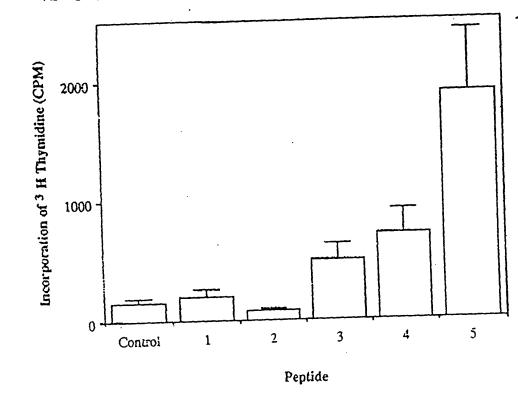
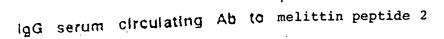


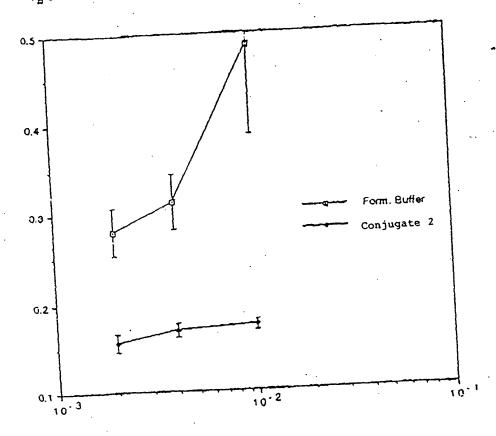
FIGURE 6

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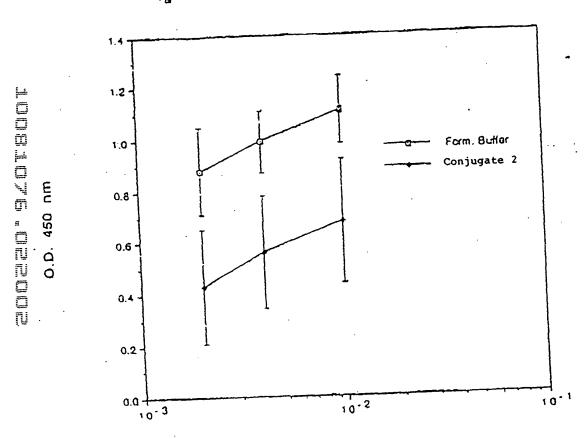
serum dilution

FIGURE 7

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## igG serum circulating levels to Melittin



serum dilution

FIGURE 8

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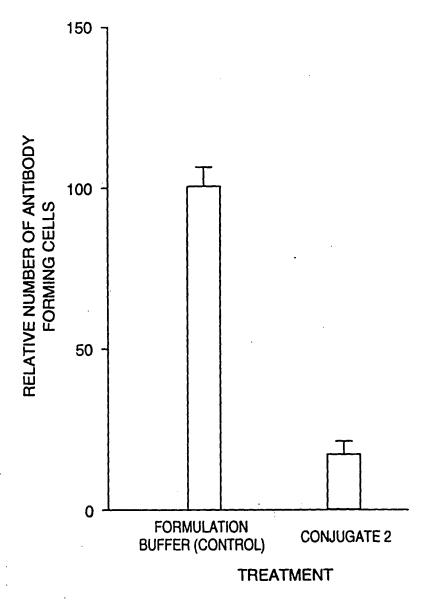


FIG. 9

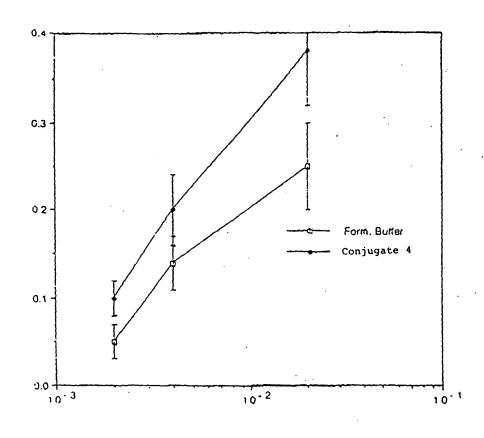
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igG serum circulating Ab to Peptide 5

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serum dilution

FIGURE 10

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## Melittin Peptide Conjugates

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Melittin Conjugate # 1, R = H<sub>2</sub>N-Trp-IIe-Lys-Arg-Lys-Arg-GIn-GIn-Lys-Cys-Gly-CO<sub>2</sub>H

Melittin Conjugate # 3, R = H2N-Trp-IIe-Lys-Arg-Lys-Arg-GIn-Gin-Lys-Cys-GIy-CO2H Melittin Conjugate # 4, R = H2N-Cys-IIe-Ser-Trp-IIe-Lys-Arg-Lys-Arg-GIn-GIn-GIy-CO2H Melittin Conjugate # 5, R = (H2N-Trp-IIe-Lys-Afg-Lys-Arg-GIn-GIn)2-Lys-Cys-Gly-CO2H Melittin Conjugate # 2, R = H2N-Cys-Trp-IIe-Lys-Arg-Lys-Arg-Gln-Gln-Gly-CO2H

Melittin peptides attached through sulfur atom on added cysteine, average n = approx. 74